

Watt, Leakage current , ACV, DCV, DCV, ohms, Beeper

# WATT/Leakage METER

Model : DW-6160

ISO-9001, CE, IEC1010



**Lutron**

LUTRON ELECTRONIC



*The Art of Measurement*

# WATT/Leakage METER

Model : DW-6160

## FEATURES

* Professional WATT meter with Leakage current tester, digital display , battery operated.
* LSI - circuit provides high reliability and durability.
* Measurement : WATT ( AC ) : 2500 W x 0.1 W/1 W. Leakage current ( AC mA ) : 20.00 mA x 0.01 mA. ACV : 600.0 V x 0.01 V/0.1 V. ACA : 10.00 A x 0.001 A/0.01 A. DCV : 600.0 V x 0.01 V/0.1 V. ohm : 2 K ohm x 0.001 K ohm , 20 K ohm x 0.01 K ohm
* Low Watt measurement, 1.0 to 999.9 Watt x 0.1 Watt.
* True Power and wide range , 0 to 2500 Watt .
* True RMS ACV, ACA measurement.
* Leakage current ( AC mA ) detection.
* Auto range.
* Continuity beeper.
* Large LCD , dual value display with backlight.
* Memory Record ( Max., Min. ).
* Data Hold.
* RS232/USB computer interface.
* Power : DC 1.5V ( UM-3, AA ) x 8 PCs or DC 9V adapter in.

## GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD display, max. reading 5999. Digit size : 74x47 mm. Dual value display with backlight
Measurement	ACV 0.1 to 600.0 V DCV 0.1 to 600.0V Ω 0.001 kΩ to 20.00 kΩ WATT 0.1 W to 2500 W Leakage current 0.01m A to 20.00 m A ACA 0.001A to 10.00 A
Over input	---- " mark indication .
Polarity	** reverse polarity.
Zero Adjustment	Automatic adjustment.
Sampling Time	Approx. 1.5 second.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.
Operating Temperature	0 to 50 °C .
Operating Humidity	Less than 80% R.H.
Power Supply	* Alkaline or heavy duty DC 1.5 V battery ( UM3, AA ) x 8 PCs, or equivalent. * DC 9V adapter input. ( AC/DC power adapter is optional ).
Power Consumption	Approx. DC 33 mA.
Weight	822 g/1.82 LB.
Dimension	224 x 125 x 65 mm ( 8.8 x 4.8 x 2.5 inch )
Accessories Included	* Instruction manual..... 1 PC * Test lead ( Red and Black )..... 1 pair
Optional Accessories	* AC to DC 9V adapter. * USB cable, USB-01. * RS232 cable, UPCB-02.

Optional Accessories	* Data Acquisition software, SW-U801-WIN. * Hard carrying case, CA-08
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## ELECTRICAL SPECIFICATIONS (23± 5 °C)

### AC / DC VOLTAGE

Range	Resolution	Accuracy
0.01 V to 99.99 V	0.01 V	ACV : ± ( 1 % + 5d ) DCV : ± ( 0.8 % + 5d )
100.0 V to 600 V	0.1 V	ACV : ± ( 1 % + 5d ) DCV : ± ( 0.8 % + 5d )

- \* Measuring Signals come from the front panel terminals.
- \* Auto range.
- \* Max. input voltage : AC 600 V, DC 600 V.
- \* ACV accuracy is test under input signal is sine wave, 50/60 Hz
- \* ACV frequency response is from 40 to 400 Hz.
- \* ACV is true rms measurement..

### OHMS ( Resistance )

Range	Resolution	Accuracy
2 KΩ	1 Ω	± ( 1 % + 1d )
20 KΩ	10 Ω	± ( 1 % + 1d )

- \* Auto range.
- \* Continuity beeper : < 4 Ω .
- \* Overload Rating : AC / DC 600V at 20 second Max

### WATT ( true power )

Range	Resolution	Accuracy
1000 W	0.1 W	± ( 1.5 % + 5d )
1001 to 2500 W	1 W	± ( 1.5 % + 5d )

- \* 0.1 W resolution : Input voltage < 200 AVC or Input current < 2 ACA.
- Beyond above input, the resolution will still be 1 W.
- \* Measuring Signals come from the top power plug input..
- \* Accuracy is test under input signal is sine wave, 50/60 Hz
- \* ACV, ACA frequency response is from 40 to 400 Hz.
- \* Max. input voltage : AC voltage 250 V, AC current : 10 A.

### Leakage ( AC mA )

Range	Resolution	Accuracy
0 to 20 mA	0.01 mA	± ( 1 % + 5d )

- \* The leakage current that sense between the " Hot line " and the " Earth " of the measuring installation that connect to the output " Power plug "

### V, A ( true rms )

Range	Resolution	Accuracy
ACV 250 V	0.01 V/0.1 V	± ( 1 % + 5d )
ACA 10 A	0.001 A/0.01A	± ( 1 % + 3d )

- \* ACV, 0.01 V resolution is valid from 0.01 V to 99.99 V.
- ACV, 0.1 V resolution is valid from > 100.0 V.
- \* ACA, 0.001 A resolution is valid from 0.001 A to 1.999 A.
- ACA, 0.01 A resolution is valid from > 2 A.
- \* Measuring signals come from the top power plug input ( power source ).
- \* Auto range.
- \* ACV, ACA accuracy is test under input signal is sine wave, 50/60 Hz
- \* ACV, ACA frequency response is from 40 to 400 Hz.
- \* ACV, ACA is true rms measurement..
- \* Max. input voltage : AC voltage 250 V, AC current : 10 A.